#### **Central District Clinic**



The design of the Central District Clinic database system requires further specification

# FIT

#### 100 Recall The CDC Operation

- At the CDC there are various operations, some performed on a per/client cycle, others performed at larger intervals
  - □ Enter client data
  - Queue client for health professional
  - Fill out chart
  - □ Order tests
  - □ Label Specimens
  - Specimens compared to manifest
  - Results recorded in client record
  - Reply letter composed
  - Quarterly statistics compiled
  - Records archived



#### 100 The Problem of Queuing

- When the receptionist finishes filling out the Clients form, the client is queued for the medical professional
- What does it mean in database terms to "queue" someone? [This isn't a standard idea, its just something that we need to invent for this project.]
- Recall that queuing established the relationship between a client and a medical professional ... we represent one of these relationships by a row in the Visits table, so ...

Queuing must involve creating a row in the Visits table with the initial data of a client and a med pro



# 100 Construct A Client's Form To Queue

Once the data is entered on the Client form, the receptionist must choose a medical professional

Client ID	1	City	Seattle	
Prefix	Mr	State	WA	
First Name	Thomas	ZIP	98100	
Middle Name	Wright	Home Phone	(206) 55	5-1212
Last Name	Jones			
Suffix	Jr.	Work	Phone	
Address	123 1st Avenue	Birtho	late	11/22/33
		Date		11/20/99



#### 100 Clicking on Queue ...

Clicking on Queue brings up a miniform with 3 fields in it from the Visits table, not from the Clients table



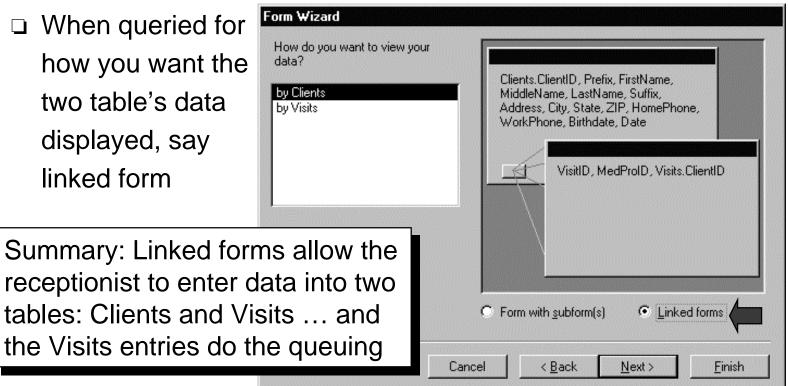
Pairing the client and the medical professional creates the relationship we want to represent, so ...

By entering the medical professional's ID and the Client's ID the receptionist sets up the visit for the client AND sets up the row in Visits to record the data for the visit



#### **100** Getting A Linked Form

- When working in the form wizard follow these steps to get the linked form for the queuing:
  - Move all of the fields from Clients to the form
  - Move the three fields from Visits: VisitID, MedProID, ClientID
  - □ When queried for how you want the two table's data displayed, say linked form





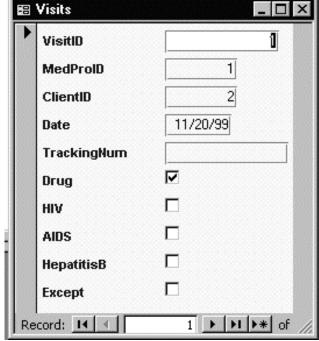
#### **100** Handling Tests

- There are two aspects to a test request:
  - The information that a test is requested
  - ☐ The outcome of the test

The two aspects could be handled in a single field,

but will be treated separately

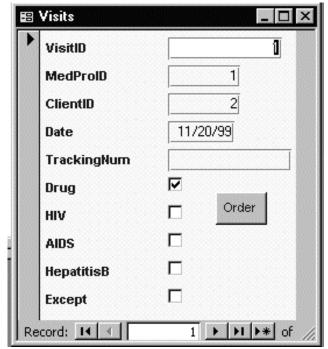
- □ For each <test>, there is a <test>R checkbox field for the request
- □ For each <test>, there is a <test>O text field for the outcome
- On the form, only the request checkboxes are shown





#### 100 Ordering

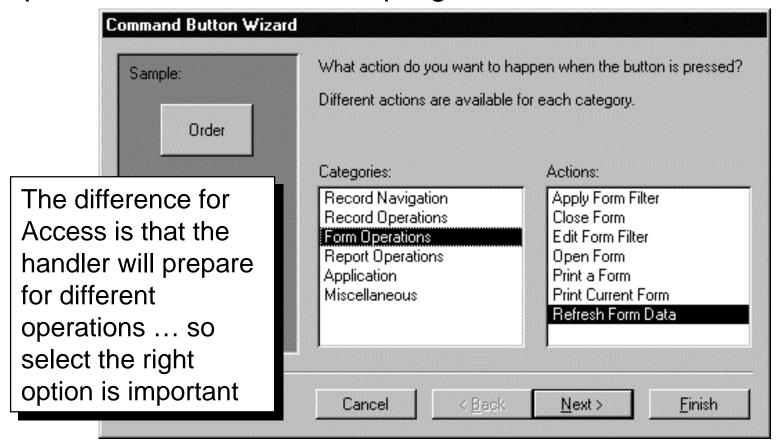
- The final act of a visit is for the medical professional to "order" the tests
- The action of ordering in the database system is to create the client's tracking number
- This involves adding a command button control and programming the creation of the tracking number





# 100 The Order Button

Like any command button control, the programmer places it on the form and programs the event handler



# **100** Computing Tracking Number

The "preloaded" command event handler has code:

**Option Compare Database** Option Explicit

Private Sub cmdOrder\_Click() On Error GoTo Err cmdOrder Click

Tracking number computation here

DoCmd.DoMenuItem acFormBar, acRecordsMenu, 5, , acMenuVer70

Exit cmdOrder Click:

Exit Sub

Err\_cmdOrder\_Click:

MsgBox Err.Description

Resume Exit cmdOrder Click

**End Sub** 

#### FIT 100

#### **100** Entering Tracking Number

The tracking number field is something the user cannot enter (locked field) and cannot change ...

```
Tracking.SetFocus
Tracking.Locked = False
Tracking.Text = "CDC" & Hex((12*(Year(Date)-Year("11/20/99")
+ Month(Date)) * 1000000 + VisitID)
Tracking.Locked = True
```

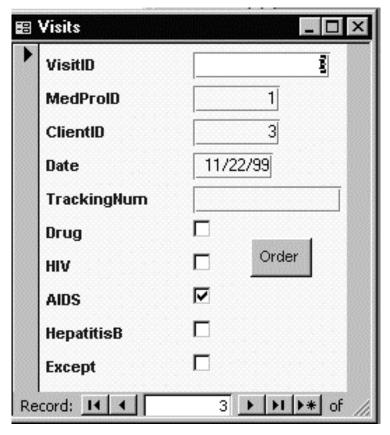
- What is the tracking number in English?
- It is the letters "CDC" followed by the computer's hexadecimal encoding of the number of months since the creation of this program followed by the VisitID

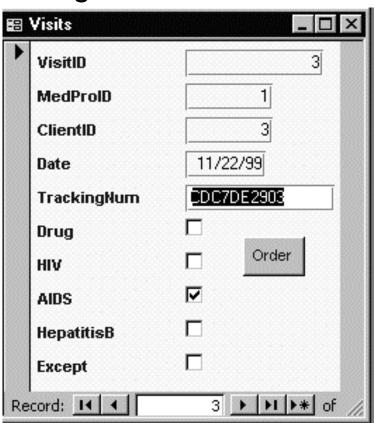
The tracking number is reversible, but not easily associated with a person or a visit



#### 100 The Results ...

Click on Order to create tracking number







# 100 Form Commands

- Other activities of the CDC database system can make use of form command buttons
  - □ Clear -- it is possible to remove all of the text on a form before it goes into the database ... this would be advantageous in case the receptionist goofs up badly or someone just gets up and walks out
  - □ Print Labels -- it is possible to print out the specimen labels on command from the Visits form

#### FIT 100 Summary

- A series of critical operations for the clinic database
  - Queuing ... setting up the relationship in Visits
  - □ Handling tests
  - Ordering tests
  - Developing the tracking number
  - □ More command buttons
- ❖ And there is still more ...